**CS 535: Homework 1**

**Teammates:** Achyut Shukla, Aparna Anand, Madhusudhan Krishnamachari

**Question 1:**

We observed the following in the videos:

* Usage of words in context convey emotion. For example, words like hate, love were not used in a sarcastic manner but were used to convey the actual positive or negative emotions. In other scenarios, people could use these words in sarcastic manners but this was not observed in these videos.
* People tend to use hand gestures to accompany their speech but these gestures rarely had any significance on their own. It was used as a medium to express themselves better.
* It was observed that the voice pitch changed when people wanted to express a positive or negative emotion and they previously had a neutral pitch a few seconds before. Their pitch changed when their emotion changed from neutral to positive/negative.
* People tend to smile or laugh when expressing positive emotions. This was observed in most of the cases when people smiled.
* In many videos, it was observed that subjects’ eyes widened and their eyebrows got raised when they expressed positive emotions.
* When expressing negative emotions, people frowned, their eyebrows moved inward, they clenched their teeth, they stressed some word syllables and sometimes, even used profanity.

**Question 2:**

The nominal Krippendorff’s Alpha value is 0.5845. If the alpha value is >= 0.8, then it is considered reliable. If 0.8 > alpha >= 0.667, we can draw tentative conclusions about agreement. Anything less than 0.667 should be discarded is the general rule of thumb. So, if we go with the general guideline, this alpha value is not reliable. However, our alpha value still provides some information about inter-rater agreement. We observe that at least two of the raters agree for most segments. However, there are times when all three of them completely disagree with each other or all three of them completely agree with each other.

**Question 3:**